

53883-69

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460-0001

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

December 29, 2014

Nicola D. Cowen, MSc.
Senior Regulatory Consultant
Exponent®, Inc
1150 Connecticut Avenue, Suite 1100 | Washington, DC 20036

Subject: Acceptance of Amended Reregistration Label
Product Name: Permethrin 10 EW
EPA Registration Number: 53883-69
EPA Decision Number: 423899
Your Resubmission Dated June 12, 2014

Dear Ms. Cowen:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the reregistration of the referenced product in connection with the **REDs for Permethrin**, and has concluded that your submission is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

PLEASE NOTE: This product is not being reregistered under sections 3(c)5 and 4(g) of FIFRA at this time.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Mr. Carmen J. Rodia, Jr. by phone at (703) 306-0327, or via e-mail at Rodia.Carmen@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard Gebken".

Richard Gebken
Product Manager 10
Invertebrate & Vertebrate Branch 2
Office of Pesticide Programs

Enclosure: Label stamped "Accepted." dated December 29, 2014

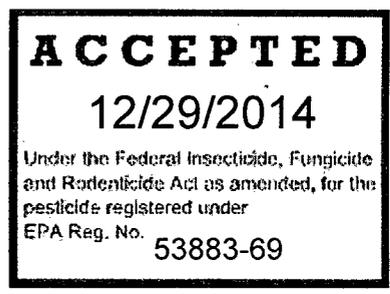
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Permethrin 10 EW
(alt. brand name Martin's Vegetables Plus)

[For Commercial/Occupational Use Only]



- For use by professional or commercial applicators
- Kills Termites* [including dry-wood termites](for localized control only)
- [For Use around foundations, outside buildings, porches, wood piles, wooden fences and decks, patios]
- [Kills troublesome outdoor insects which destroy lawns, roses, flowers, trees and shrubs, vegetables, fruits, and nuts]
- [Provides contact and residual control for up to 4 weeks]
- [KILLS OVER 100 [LISTED] NAMED INSECT PESTS]
- Subterranean termite control
- Protects your lawns, trees & shrubs, roses & flowers, fruits & nuts, and vegetables from: alfalfa loopers, ants, aphids, armyworms, bagworms, beetles, borers, brown dog ticks, budworms, cabbageworms, chinch bugs, cicadas, citrus black flies, cluster flies, codling moths, corn earworms, crickets, cutworms, earwigs, elm spanworms, fall cankerworms, fire ants, fleas, green fruitworms, gnats, grasshoppers, houseflies, inchworms, Japanese beetles, leafhoppers, leafminers, leafrollers, lone star ticks, lygus bugs, mealybugs, millipedes, mole crickets, mosquitoes, moths, navel orangeworms, scales, sod webworms, sowbugs (pillbugs), spider mites, spring cankerworms, tent caterpillars, thrips, tobacco budworms, weevils, whiteflies and many others.
- [Controls flies, lice, fleas, ticks, mites, mosquitoes, and many other listed pests]
- [Permethrin 10 EW is a water-based 10% Permethrin which offers a quick knockdown and long residual treatment.]
- [For use on listed animals and animal premises]
- [Controls listed Flies, Lice, Fleas, Mites]
- [[insert product name] makes up to 106 gallons for residential systems and up to 50 gallons for use in barns.]
- [[insert product name] controls flies, lice, fleas, ticks, mites, mosquitoes, and many other listed pests]
- [[insert product name] is a water-based 10% Permethrin]
- [[insert product name] can be used with a variety of different application methods, including outdoor perimeter treatment of building surfaces for ants, flies, fleas, ticks, and mosquitoes. [insert product name] also helps to prevent infestations of earwigs, millipedes, spiders, and crickets when applied to the exterior perimeter.]
- [Controls Listed Flying & Crawling Insects]
- [Multi-Purpose, Broad Spectrum Insecticide]
- [Up to 28 Day Residual Activity]

ACTIVE INGREDIENT:

Permethrin	10.0%
OTHER INGREDIENTS:	90.0%
TOTAL:	100.0%

KEEP OUT OF REACH OF CHILDREN
CAUTION

READ ENTIRE LABEL AND PAMPHLET. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

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[BACK/SIDE LABEL PANEL]

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION: Harmful if swallowed. Avoid contact with skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are barrier laminate, nitrile, or neoprene rubber, or Viton®. If you want more options, follow the instructions for category E on an EPA chemical-resistance category selection chart.

All other mixers, loaders, applicators, and other handlers must wear:

Long-sleeve shirt and long pants,

Shoes plus socks,

Chemical-resistant gloves (such as or made of our any waterproof material, selection category A) for all handlers except for applicators using motorized ground equipment, pilots, and flaggers.

Chemical-resistant apron for mixers/loaders, persons cleaning equipment and persons exposed to the concentrate and for handlers performing animal dip applications.

USER SAFETY REQUIREMENTS:

Follow manufacturer's instruction for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminate with this product's concentrate. Do not use them.

USER SAFETY RECOMMENDATIONS:

User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.	

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to aquatic organisms including fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively, visiting the treatment area.

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STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food or feed. Store in original containers and out of the reach of children, preferably in a locked storage area. Handle an open container in a manner as to prevent spillage.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Handling: Non-refillable container. Do not re-use or re-fill this container. Offer for recycling if available. Completely empty container. Dispose of container at an approved waste disposal facility or by incineration if allowed by state and local authorities. Do not use container in connection with food, feed, or drinking water.

Spills: If the container is leaking or material is spilled, absorb liquid with an absorbent such as kitty litter and carefully sweep up and wash exposed area with detergent and water. In spill or leak incidents, keep unauthorized people away.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

FOR PET USE, USE ONLY ON DOGS. DO NOT APPLY TO CATS.

GENERAL PRECAUTIONS AND USE RESTRICTIONS

For use as a surface spray:

- Do not allow adults, children or pets to enter until sprays have dried.

For food/feed handling and service area use:

- Do not apply when food is present.
- Do not use in food areas of restaurants or food handling establishments or other areas where food is commercially prepared or processed. Do not use in a facility that is in operation or in serving areas while food is exposed. Serving areas are defined as areas where prepared foods are served such as dining rooms, but exclude areas where food may be prepared or held. When used in the home, cover or remove all exposed food and cooking utensils and cover all food-processing surfaces or wash thoroughly after treatment and before re-use. Exposed food should be covered or removed.
- Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.
- Not for broadcast use on indoor residential surfaces.
- Do not use in aircraft.

For Outdoor use:

- Do not water the treated area to the point of run-off. Do not make applications during rain.
- Do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Except when applying to pets or livestock or through outdoor residential misting systems, do not enter or allow others to enter until vapors, mists and aerosols have dispersed and the area has been thoroughly ventilated.
- Except when applying to pets or livestock or through outdoor residential misting systems, do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Except when applying to pets or livestock or through outdoor residential misting systems, only protected handlers may be in the area during application.
- Except when applying to pets or livestock or through outdoor residential misting systems, do not enter or allow others to enter until vapors, mists, and aerosols have dispersed, and the area has been thoroughly ventilated.
- Do not remain in the treated area. Exit immediately and remain outside the treated area until vapors, mists and aerosols have dispersed.
- Remove or cover exposed food and drinking water before application.
- Do not apply directly to or near water, storm drains or drainage ditches. Do not apply in

- windy conditions. To prevent run-off, do not water the treated area(s) or apply when heavy rain is expected. Rinse application equipment only over treated area.
- Do not make applications during rain.
 - Do not wet plants to point of run-off or drip. Do not use treated articles until spray has dried.
 - When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.
 - Remove pets and birds, and cover fish aquaria before application. Turn off aquarium filtering systems before spraying and wait approximately 15 minutes after application before turning the filter back on.
 - Except for outdoor residential misting applications, all outdoor applications must be limited to spot or crack-and-crevice applications, except for the following permitted uses: 1) Treatment to soil or vegetation around structures; 2) Applications to lawns, turf, and other vegetation; Application to building foundations up to a maximum height of 3 feet. Other than applications to building foundations all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches, and structural surfaces (such as windows, doors and eaves) are limited to crack and crevice applications only.

**THREE STEPS TO MIX AND APPLY:
SHAKE WELL BEFORE USING**

1. For lawns and vegetables, measure the area to be sprayed. Calculate square feet by multiplying length by width. For all other applications, apply as a thorough cover spray.
2. Use a clean sprayer. Carefully measure and mix the amount of concentrate and water as directed.
3. Spray as directed. Thorough coverage is important. Flush sprayer with clean water after each use. Make applications when insects first appear. Repeat applications as directed.

Volume conversions:
1 fl.oz. = 6 tsp. or 2 Tbsp.
8 fl.oz. = 1/2 pt. or 1 cup

DIRECTIONS FOR APPLYING

TURFGRASS

Turf Variety	Pests	How to Use
bentgrass, bermudagrass, bluegrass, dichondra, fescue, Irish moss, merion, St. Augustine grass	ants, armyworms, brown dog ticks, chinch bugs, crickets, cutworms, fleas, grasshoppers Japanese beetle grubs, mole crickets, sod webworms, ticks (including those that carry Lyme disease, leafhoppers	Thoroughly wet down grass a few hours before applying. Commercial and Residential turfgrass should be no taller than 3 inches at time of application. Slightly more water may be used as long as the amount of product per area is as listed below. For ants, crickets and grasshoppers, use 1/2 fl.oz. in 3 gals. of water to cover 1,000 sq.ft. For other listed insects, use 1 1/2 fl.oz. in 10 gal. of water to cover 1,000 sq.ft.

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HOUSE PLANTS INDOORS: TO PROTECT PLANTS IN RESIDENTIAL GREENHOUSES AND FOR INDOOR LANDSCAPING

House Plants	Pests	How to Use.
ageratum, ardisia, aster, baby's breath, begonia, birdsnest fern, bleeding heart, carnation, chrysanthemum, coleus, crown of thorns, cockscomb, cyclamen, dracaena, dumbcane, english ivy, fuchsia, gladiolus, grape ivy, juniper, lily, marigold, orchid, palm, pansy, peperomia, petunia, philodendron, piggy-back plant, poinsettia, portulaca, pothos, prayer plant, purple passion, rabbits foot fern, rose, schefflera, snapdragon, snake plant, statice, velvet plant, verbena, zinnia	aphids, armyworms, corn earworms, exposed thrips, fall cankerworms, inchworms, Japanese beetles, leafminers, leafrollers, mealybugs, scales, soldier mites, spring cankerworms, whiteflies	Mix ¼ fl.oz. in 1 gal. of water. Contact and residual: Use sufficient spray to obtain full coverage of all foliage. If application is to be made indoors, remove infested plants from living areas prior to application. Use in an area not likely to be occupied by people or pets (particularly fish). After spraying, plants can be returned to original location. Do not use more product than recommended, as this may cause some plant injury. Use with care on ferns, palms and fuchsia. As with all plants listed, especially carnations, chrysanthemums, and roses, there exists a wide variety of species and cultivars, and therefore, a wide variety of susceptibility to injury. To ascertain possible phytotoxicity, treat a few plants as described above, wait 24 hours, and check for possible injury.
velvet plants	fungus gnats	

Fire Ant Control

Individual Mound and Plant Container Treatment:

Mix ½ fl.oz. in 3 gals. of water and apply as a drench using low pressure application equipment or sprinkler can. Gently apply 1 gallon of the mixture over the surface of each mound. Thoroughly wet mound and surrounding area of 3x4 ft. (12 sq.ft.). For best results apply in cool weather 65°-80°F early or late in the day. Treat new mounds as they appear. Pressurized sprays may disturb ants and cause migration, which will reduce product effectiveness. **Use the same method as above for the control of Fire Ants that may nest in permanently placed containerized ornamentals plants.**

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TREES & SHRUBS

Tree and Shrub Variety	Pests	How to Use
Arizona, cypress, azalea, birch, cherry, non-bearing citrus, conifers, elm, English ivy, euonymus, weeping fig, fir, honeysuckle, lilac, mock-orange, oak, palm, philodendron, pine, poinsettia, tulip poplar, rhododendron, taxus	aphids, bagworms, cicadas, exposed thrips, fall cankerworms, inchworms, leafminers, leafrollers, mealybugs, spider mites, whiteflies, gypsy moth, tent caterpillar, japanese beetles	Use ¼ fl.oz. in 1 gal. of water. Apply as a thorough spray, wetting leaves and branches to the dripping point. Try to penetrate dense foliage. Spray in the late afternoon or evening, when the temperature ranges from 50°-75°F and when there is little or no wind. Spray at the first sign of insects. Application can be made up to the day of collection.
cherry, honeysuckle	fall webworms	
pine	pine beetles, pine moths, pine needle miners, needle scales	
other conifers	budworms	
Douglas and grand firs	tussock moth	
non-bearing citrus	citrus black flies	
oak	oakworms	
elm	elm leaf beetles, elm spanworms, fall webworms	

On Tent caterpillars, application should be made when caterpillars are young and tents are first noticed. For best results, apply in the late afternoon or evening, when caterpillars have returned to their tents. Wet tents with spray on all sides. A few caterpillars may be seen escaping from the tent; however, they should die within several hours.

ROSES & FLOWERS (ORNAMENTALS)

Roses & Flowers (Ornamentals)	Pests	How to Use
ageratum, aster, ardisia, azalea, baby's breath, begonia, birds-nest fern, bleeding heart, carnation, chrysanthemum, coleus, common ninebark and snowberry, crown of thorns, cockscomb, cyclamen, dracaena, dumbcane, english ivy, exacum, fuchsia, gladiolus, grape ivy, gold bells, hypoestes, ivy, juniper, lilac, marigold, mock-orange, nannyberry, orchid, palm, pansy, pea shrub, peperomia, petunia, philodendron, piggy-back plant, poinsettia, portulaca, pothos, prayer plant, purple passion, rabbits foot fern, rhododendron, rose, schefflera, snapdragon, snake plant, statice velvet plant, verbena, zinnia	aphids, armyworms, bagworms, cabbage worms, cicadas, cornworms, cutworms, exposed thrips, fall cankerworms, fall webworms, fungus gnat, inchworms, japanese beetles, leafminers, leafrollers, mealybugs, scale crawlers, spring cankerworms, spider mites, whiteflies, rose chafer, psyllids, scale insects	Use ¼ fl.oz. in 1 gal. of water. Apply as a thorough spray, wetting the plants to the dripping point. Try to hit underside of leaves and penetrate dense foliage. Spray in the later afternoon or evening when the temperature ranges from 50° to 75°F and when there is little or no wind. Spray at the first sign of insects. Application can be made up to the day of collection.

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FRUIT & NUT TREES

GENERAL DIRECTIONS

Use ½ fl.oz. in 1 gal. of water. Apply when insects appear. Wet the plants to the dripping point. Cover undersides of leaves and penetrate dense foliage to the extent possible.

Tree Variety	Pests	How to Use
almonds	navel orangeworms, peach twig borers	Do not make more than 2 applications during hull split and 5 applications per season. Can be applied up to 7 days prior to harvest.
apples	green fruitworms, aphids, leafrollers(oblique-banded, redbanded), plum curculio, rosy apple aphids, spotted tentiform leafminers, tarnished plant bugs, white apple leafhoppers, Japanese beetles	Do not make more than 3 applications per season. Do not apply after petal fall. Do not retreat before 10 days.
peaches	borers (lesser peachtree, peach twig), green fruitworms, plum curculio, Oriental fruit moths, tarnished plant bugs	Do not apply within 7 days of green harvest or 14 days of harvest. Do not make more than 8 applications per season. Do not retreat before 10 days.
pears (dormant through delayed dormant)	pear psylla	Apply during the dormant through delayed dormant growth period only. Do not make more than 2 applications per season. Add, if desired, 8 oz. of spray oil to each gallon of {product}.
pears (summer)	codling moths, green fruitworms, pear psylla, aphids	Do not make more than 3 applications per season. Can be applied up to 14 days prior to harvest. Do not retreat before 10 days.

VEGETABLES

Prepare a spray solution at the dilution rates listed for each crop in the chart below. Apply the spray solution at the rate of 1 gallon to cover 440 square feet surface area.

Vegetables	Pests	How to Use
asparagus (pre-harvest)	asparagus beetles, cutworms	Use ¼ fl.oz. in 2 gals. of water. Apply to ensure uniform coverage. Do not retreat before 7 days. Do not apply more than 4 applications per crop. Can be applied up to 1 day prior to harvest.
asparagus (post-harvest)	larval stages of asparagus beetle; tarnished plant bugs, lygus bugs, adult Japanese beetle	Use ¼ fl.oz. in 1 gal. of water. Treat ferns or bush growth after spear harvest when insects are present.
celery - see leafy vegetables		
cole crops, broccoli, brussels sprouts, cabbage, cauliflower	beet armyworms, cabbage aphids and loopers, diamondback moths, imported cabbageworms	Use ¼ fl.oz. in 1 gal. of water. Apply every 5 days or as needed. Do not retreat before 4 days for broccoli and 5 days for brussel sprouts, cabbage and cauliflower. Can be applied up to 1 day prior to harvest. Do not make more than 8 applications on cauliflower, Brussels sprouts and broccoli and 10 applications on cabbage.
corn - see sweet corn		

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Vegetables	Pests	How to Use
cucumber, melons, pumpkins, squash	flea beetle, leafhopper	Use ½ fl.oz. in 1 gal. water. Do not retreat before 7 days. Apply as needed, but not more than 8 applications per season. Can be applied up to 3 days prior to harvest.
<u>cucurbits</u> : balsam pear(bitter melon), Chinese waxgourd (Chinese preserving melon), citron melon, cucumber, gherkin, edible gourds; melons including hybrids such as cantaloupe, casaba, crenshaw, honeydew, honey balls, mango melon, muskmelon, Persian melon, pumpkin, summer & winter squash, watermelon	aphids, cabbage looper, cucumber beetle (adults), cutworms, leafhoppers, leafminers, melonworms, pickleworm, plant bugs, squash bugs.	Use ½ fl.oz. in 1 gal. water. Do not retreat before 7 days. Apply to ensure uniform coverage. Can be applied up to the day of harvest.
eggplant	Colorado potato beetles, vegetable leafminers	Use ¾ fl.oz. in 1 gal. of water. Do not retreat before 7 days. Apply to ensure uniform coverage. Do not exceed 16 applications. Can be applied up to 3 days prior to harvest.
horseradish (foliar application)	imported crucifer weevils	Use ¾ fl.oz. in 1 gal. water. Do not retreat before 10 days. Do not exceed 3 foliar applications. Can be applied up to 30 days prior to harvest.
lettuce head only (Do not use on leaf lettuce)	corn earworms, beet armyworms, loopers (alfalfa, cabbage), tobacco budworms	Use ½ fl.oz. in 1 gal. water. Do not retreat before 7 days. Apply every 5-10 days as needed. Do not make more than 10 applications per season. Can be applied up to 1 day prior to harvest.
<u>leafy vegetables</u> : amaranth, arrugula, celery, celtuce, chervil, corn salad, chrysanthemum (edible-leaved and garland), cress (garden and upland), dandelion, dock, endive, fennel, lettuce(head and leaf), parsley, purslane (garden and winter), rhubarb, spinach, Swiss chard	alfalfa looper, aphids, beet armyworm, cabbage looper, corn earworm, cutworms, european corn borer, fall armyworm, green cloverworm, southern armyworm, tobacco budworm, vegetable leafminer.	Use 1/3 fl.oz. in 1 gal. water. Do not retreat before 3 days. Apply every 5 to 10 days as needed. Do not make more than 10 applications per season. Can be applied up to 1 day prior to harvest.
melons-see cucurbits		
potatoes	beet armyworm, Colorado potato beetle, potato leafhopper, potato tuberworm, cabbage looper, cutworms, European corn borer, potato psyllid, tarnished plant bug	Use ¾ fl.oz. in 2 gals. of water. Do not retreat before 10 days. Apply as needed, but not more than 12 applications. Can be applied up to 14 days prior to harvest.

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Vegetables	Pests	How to Use
peppers, bell	vegetable leafminers, cabbage looper, flea beetle, corn earworm, pepper weevil, European corn borer, green cloverworms, leafhoppers	Use ½ fl.oz. in 1 gal. of water. Do not retreat before 5 days. Apply as needed, but not more than 8 applications per season. Can be applied up to 3 days prior to harvest.
sweet corn	armyworms (fall, southern), corn earworms, european corn borers	Use ¾ fl.oz. in 2 gals. of water. Do not retreat before 3 days. Apply every 5 days, but not more than 6 applications per season. Can be applied up to 1 day prior to harvest.
Tomatoes (Do not apply on cherry tomatoes and varieties yielding less than tomatoes one inch in diameter.)	beet and southern armyworm, tomato pinworm, tomato fruitworm, horn worms, granulate cutworms, Colorado potato beetle, cabbage looper	Use ½ fl.oz. in 1 gal. water. Apply to ensure uniform coverage, but not more than 6 applications per season. Can be applied up to day of harvest.

NUISANCE PESTS IN OUTDOOR AREAS

GENERAL DIRECTIONS

Use 6.7 Fl.oz. in 1 gallon of water to cover 1000 sq. ft.

OUTSIDE SURFACES OF BUILDINGS

Use Permethrin 10 E.W. on ants, clover mites, crickets, earwigs, millipedes, sowbugs (pillbugs) and spiders to help prevent infestation of buildings, treat the building foundation to a height of 2 to 3 feet, where pests are active and may find entrance. Also, apply as a residual spray to outside surfaces of building, including porches, screens, window frames, eaves, patios, garages, refuse dumps and other areas where these pests congregate or have been seen.

OTHER OUTDOOR AREAS

Use Permethrin 10 E.W. on ants, crickets, earwigs, fleas, ticks (including ticks that may carry Lyme disease) for treatment of localized infestations of these insects in areas where there are weeds or bushy non-crop areas, spray infested areas thoroughly. For ants, thoroughly wet hills and trails. Repeat application only as needed to maintain insect control.

To reduce annoyance from: **cluster flies, flying moths, gnats, house flies, mosquitoes.** Spray outside surfaces of screens, doors, window frames or wherever these insects may enter the room. Also treat surfaces around light fixtures on porches, in garages, around shrubbery, and other places where these insects alight or congregate.

DIRECTIONS FOR USE IN OUTDOOR RESIDENTIAL MISTING SYSTEMS (RESIDENTIAL YARDS, PLAYSCAPES)

Use to control, or reduce the populations of spiders and nuisance pest insects including but not limited to mosquitoes and flies.

Restrictions for use in outdoor residential misting systems:

When using this product, installers and service technicians must comply with license, certification, or registration requirements of the states, tribes, or local authorities where they are installed.

If the system works on an automatic timer, set the timing for application when people, pets, and/or food are unlikely to be present.

Do not use in an evaporative cooling system.

Direct nozzles to spray towards the target area and away from swimming pools, water bodies, or eating and cooking areas. Do not set nozzles to direct mist near outside air condition systems or other home air intakes.

If used in a system with a reservoir tank [unit / mister] [optional marketing language] for the end use dilution, the system [unit / mister] [optional marketing language] reservoir tank must be locked. Securely attach the end use and use pesticide label and a dilution statement to the system [unit / mister] [optional marketing language] tank in a weather protected area or plastic sleeve. The dilution statement must be phrased as

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follows: This container holds 3 parts [Fl.oz.] to 640 parts [Fl.oz.] water.

Mixing directions for systems [unit / mister] [optional marketing language] that utilize a reservoir tank for the end dilution:

Partially fill reservoir tank half full with water, add PERMETHRIN 10 E.W., then fill remainder of reservoir tank. Mix 6 Fl.oz. PERMETHRIN 10 E.W. per 10 gallons of water. It is recommended that the system reservoir tank be shaded from direct sunlight and direct heat sources.

If used in a direct injection system, the pesticide container must be locked. Securely attach the end use label to the pesticide container in a weather protected area or plastic sleeve.

This product may only be used in systems [unit / mister] [optional marketing language] that have been calibrated to apply no more than the maximum application rate of 0.0054 pounds PERMETHRIN 10 E.W., (0.09 Fl.oz. PERMETHRIN 10 E.W.) per 1000 cubic feet per day.

System nozzles and pressure should be able to deliver a fine particle droplet size (ULV, mist or aerosol). If the system works on an automatic timer, set the timing for application when people, pets, and food are unlikely to be present.

If the system works when a person operates a remote activation device, the application of this pesticide when people, pets, and food are present is prohibited.

Contact the system manufacture for guidance or assistance to ensure compliance with the following requirement: This product may only be used in systems that have been calibrated to apply no more than the maximum application rate of 0.25 grams a.i. per 1000 cubic feet per day.

WOOD-INFESTING INSECTS (including termites*): for beetles (furniture, deathwatch, false powderpost, longhorned, powderpost), carpenter ants (and other wood-infesting ants), carpenter bees and termites (including dry-wood termites):

Treat outside surfaces of buildings, porches, wooden decks and patios, wooden fences, window frames, doorways, foundations, eaves, patios, garages, garbage areas and other areas where you may find these pests.

Mix 2½ fl.oz. with 1 gallon of water to treat 100 sq.ft. Spray infested surfaces until thoroughly wet, avoiding dripping and runoff. Apply evenly on wood surfaces. To treat small areas, apply by brushing or spraying the diluted spray. For large areas, use a coarse, low pressure spray. Do not spray into electrical outlets or utilities.

Spray infested areas and areas likely to be infested, such as wood surfaces, voids and channels in damaged wood, spaces between wooden parts of a structure, and between wood and foundations where infestation is likely to occur, also around fence posts, wood piles (do not use on firewood) and tree stumps.

Suitable protective clothing should be worn in confined or overhead areas to prevent exposure to eyes and skin. The use of eye protection, protective head covering, chemical resistant gloves and footwear, a long-sleeved shirt and long pants or coveralls are recommended. Do not permit contact with treated surfaces until spray has dried. Treated confined areas, such as detached garages, under porches and decks, should be ventilated during and immediately following application before the areas are re-occupied.

For carpenter ants, spray around doors and windows and other places where ants may enter or crawl and hide. Also treat cracks and crevices or openings into wall voids or other areas where these ants may be present. **For carpenter bees**, spray or inject into holes and tunnels already made by the bees with a tank sprayer, and spray areas where they are beginning to build tunnels into the wood. **For Termites* [including dry-wood termites]**: treat as for other wood-infesting insects. This product will kill workers and winged reproductive forms of termites in the treated areas.

*The purpose of such applications of Permethrin 10 EW for termites is to kill workers or winged reproductive forms which may be present in treated channels at the time of treatment. Such applications are not a substitute for mechanical alteration, soil treatment, or foundation treatment but are merely a supplement. This product is not recommended as sole protection against termites.

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Soil Termite Treatment Directions

Subterranean Termites: DO NOT USE INSIDE DWELLINGS. For use around existing structures, not for pre-construction use. For post-construction treatment around residential buildings. **Mix 6.7 oz of this product per 1 gallon of water** (makes 0.5% water emulsion). Apply as specified below. One treatment should last up to 5 years if treated soil is left undisturbed. Kills and controls subterranean termites. Chemicals for soil treatment are used to establish a barrier against termites. The chemical emulsion must be adequately dispersed in the soil to provide a barrier between the wood in the structure and the termite colonies in the soil. Barriers may be established in the soil on the outside perimeter of the house by trenching using a rate of 4 gallons of emulsion per 10 linear feet per foot of depth to the top of the footer. A complete treatment may require treatment with another EPA registered product to the inside perimeter of the foundation and to other crucial areas. Do not use under slabs, in crawl spaces, or indoors.

Suitable protective clothing should be worn in confined or overhead areas to prevent exposure to eyes and skin. The use of eye protection, protective head covering, chemical resistant gloves and footwear, a long-sleeved shirt and long pants or coveralls are recommended. Do not permit contact with treated surfaces until spray has dried. Treated confined areas, such as detached garages, under porches and decks, should be ventilated during and immediately following application before the areas are re-occupied.

Remove all wood debris and wood forms. Around piers, pipes, chimney bases and along foundations of poured concrete, dig a trench 6 inches wide and 4 inches deep. For brick and block foundations, dig the trench about 12 inches deep. If the footing is more than 12 inches deep, make holes with a crowbar, pipe or rod about 1 foot apart that extend from the trench bottom to the top of the footing. Make holes closer in hard-packed clay soils. **NEVER DIG BELOW THE TOP OF THE FOOTING.** Apply the prepared emulsion (or solution) in the trench and to the backfill at the rate of 4 gallons per 10 linear feet per foot of depth. Cover the treated soil with a thin layer of untreated soil.

For raised porches, terraces and entrance slabs outdoors, drill holes at one foot intervals, 6 inches from the foundation, and pour one-half gallon of emulsion (or solution) into each hole. Refill holes.

Be sure to treat the interiors of accessible hollow block foundations at the same rate as above. Do not use in structural voids insulated with rigid foam. Be careful to have adequate ventilation when treating areas under structure.

NOTE: Avoid contamination of public and private water supplies by following these precautions. Do not allow a hose or any type of faucet extension to reach into the termite chemical solution while filling or mixing this material with water. Use of anti-back flow equipment will help ensure that the user of this chemical will not contaminate domestic water supplies. Refer to FHA (Federal Housing Administration), state and local specifications for safe distances of treatment areas from wells. Do not treat structures that have cisterns, wells, French drains, or sump systems. Soil in the vicinity of wells, cisterns or ponds should not be treated. For those situations, contact the local Cooperative Extension Service. Do not treat soil that is water saturated or frozen or in any conditions where runoff or movement from the treatment area (site) is likely to occur.

When to reapply: Reapplication for subterranean termites should only be made when there has been a disruption of the chemical barrier in the soil due to a construction, excavation, landscaping, etc. Reapplication should be made as a spot treatment to those areas. Annual reapplication of the entire premises must be avoided.

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ANIMAL PREMISE USE

Restrictions for use in commercial animal premise automatic misting systems:

Not for use in outdoor residential misting systems (indoor or outdoor). For Outdoor residential misting systems refer to specific instructions for misting systems found in this label.

Do not apply this product in barns or stables where animals intended for slaughter or human consumption will be maintained.

Do not apply when food, feed, or water is present.

Do not apply directly to animals.

When using this product, installers and service technicians must comply with the license, certification, or registration requirements of the state(s), tribe(s), or local authority(ies) where they are installed.

When applying via a remote activation device, do not apply when people and pets are present. If possible, when applying via automatic timer, set the timing for application when people and pets are unlikely to be present.

Direct nozzles to spray towards the target area and away from areas where people are typically present.

Do not use in an evaporative cooling system.

Do not use in misters located within 3 feet of air vents, air conditioner units, or windows.

If used in a system with a reservoir tank for the end use dilution, the system reservoir tank must be locked. Securely attach the end pesticide label and a dilution statement to the system reservoir tank in a weather protected area or plastic sleeve. The dilution statement must be phrased as follows: This container holds 3 [Fl.oz.] parts to 640 [Fl.oz.] parts water.

If used in a direct injection system, the pesticide container must be locked. Securely attach the end use label to the pesticide container in a weather protected area or plastic sleeve.

This product must only be used in systems that have been calibrated to apply no more than the maximum application rate of {insert product application rate}.

Dilution Rate		Instructions
0.5%	Mix 6.7 Fl.oz. per gallon of water in tank [reservoir].	For initial clean up of severe insect infestation, dilute at a rate of 1 part concentrate in 19 parts water (6.7 ounces per gallon of water).
0.1%	Mix 1.33 Fl.oz. per gallon of water in tank [reservoir].	For normal infestations, dilute 1 part concentrate in 100 parts water (1.33 ounces per gallon of water).

PESTS ON DOG PREMISES (Kennels, Dog Houses, Runs and Yards)

Fleas, Flies, Ticks, Lice and Mange Mites (adult and larvae)	Dilute 8 oz. in 6.25 gal. water. Dilute 1 pt. in 12.5 gal. water. Dilute 1 qt. in 25 gal. water.	Thoroughly spray infested areas, pet beds, and resting quarters. Fresh Bedding should be placed in animal quarters following treatment. Most efficient pest control is accomplished when heavy pressure and good contact is achieved. Timing and frequency of applications should be based on pest populations reaching nuisance levels, but accompanying manure removal and sanitation practices should precede sprays. Do not spray food, feed, or water. Repeat as needed but not more than once every two weeks.
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ANIMAL USE

PESTS ON DOGS

(DO NOT TREAT PUPPIES LESS THAN TWELVE (12) WEEKS OF AGE)

fleas, lice & mange, ticks,
(including deer ticks that transmit
Lyme disease)

Dilute 8 oz. in 12.5 gal. water.
Dilute 1 pt. in 25 gal. water.
Dilute 1 qt. in 50 gal. water.

Thoroughly wet the animal by dipping, sponging or spraying. Allow animal to dry in a warm place without rinsing or toweling. Do not reapply product for two to Three weeks. Consult a veterinarian before using this product on debilitated, aged, pregnant or nursing animals or on medication. **Sensitivities may occur after using ANY pesticide product for pets. If signs of sensitivity occur, bathe your pet with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately.**

NOTE: Buyer assumes all risks of use, storage or handling of this product not in strict accordance with label DIRECTIONS and PRECAUTIONS. [Optional Statement]

WARRANTY STATEMENT

Control Solutions, Inc. warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Control Solutions, Inc. To the extent consistent with applicable law, Control Solutions, Inc. shall in no event be liable for consequential, special, or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. In addition to the foregoing, no purchaser of this product (other than an end user) shall be entitled to any reimbursement for any loss suffered as a result of any suspension or cancellation of the registration for this product by the U.S. Environmental Protection Agency. Except, as expressly provided herein, Control Solutions, Inc. makes no warranties, guarantees, or representations of any kind, either expressed or implied, or by usage of trade, statutory or otherwise, with regard to the product sold, including, but not limited to merchantability, fitness for a particular purpose, use or eligibility of the product for any particular trade usage. To the extent consistent with applicable law, the exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damage resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall be damages not exceeding the purchase price paid for this product or, at Control Solutions, Inc. election, the replacement of this product.

CONTROL SOLUTIONS, INC.
5903 GENOA-RED BLUFF
PASADENA, TEXAS 77507-1041
281-892-2500

EPA Registration No. 53883-69
EPA Establishment No. 53883-TX-02

Permethrin 10 EW
(alt. brand name Martin's Vegetables Plus)

[For Residential Use Only]

- [Kills Termites* [including dry-wood termites](for localized control only)]
- [For Use around foundations, outside buildings, porches, wood piles, wooden fences and decks, patios]
- [Kills] troublesome outdoor insects which destroy lawns, roses, flowers, trees and shrubs, vegetables, fruits, and nuts]
- [Provides contact and residual control for up to 4 weeks]
- [KILLS OVER 100 NAMED [LISTED] INSECT PESTS]
- Subterranean termite control
- Protects your lawns, trees & shrubs, roses & flowers, fruits & nuts, and vegetables from: alfalfa loopers, ants, aphids, armyworms, bagworms, beetles, borers, brown dog ticks, budworms, cabbageworms, chinch bugs, cicadas, citrus black flies, cluster flies, codling moths, corn earworms, crickets, cutworms, earwigs, elm spanworms, fall cankerworms, fire ants, fleas, green fruitworms, gnats, grasshoppers, houseflies, inchworms, Japanese beetles, leafhoppers, leafminers, leafrollers, lone star ticks, lygus bugs, mealybugs, millipedes, mole crickets, mosquitoes, moths, navel orangeworms, scales, sod webworms, sowbugs (pillbugs), spider mites, spring cankerworms, tent caterpillars, thrips, tobacco budworms, weevils, whiteflies and many others.
- [Controls flies, lice, fleas, ticks, mites, mosquitoes, and many other listed pests]
- [Permethrin 10 EW is a water-based 10% Permethrin which offers a quick knockdown and long residual treatment.]
- [For use on listed animals and animal premises]
- [Controls listed Flies, Lice, Fleas, Mites]
- [[insert product name] makes up to 106 gallons for residential systems and up to 50 gallons for use in barns.]
- [[insert product name] controls flies, lice, fleas, ticks, mites, mosquitoes, and many other listed pests]
- [[insert product name] is a water-based 10% Permethrin]
- [[insert product name] can be used with a variety of different application methods, including outdoor perimeter treatment of building surfaces for ants, flies, fleas, ticks, and mosquitoes. [insert product name] also helps to prevent infestations of earwigs, millipedes, spiders, and crickets when applied to the exterior perimeter.]
- [Controls Listed Flying & Crawling Insects]
- [Multi-Purpose, Broad Spectrum Insecticide]
- [Up to 28 Day Residual Activity]

ACTIVE INGREDIENT:

Permethrin	10.0%
OTHER INGREDIENTS:	90.0%
TOTAL:	100.0%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

READ ENTIRE LABEL AND PAMPHLET. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Net Contents _____

[BACK/SIDE LABEL PANEL]

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Avoid contact with skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.	

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to aquatic organisms including fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively, visiting the treatment area.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food or feed. Store in original containers and out of the reach of children, preferably in a locked storage area. Handle an open container in a manner as to prevent spillage.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Handling: Non-refillable container. Do not re-use or re-fill this container. Offer for recycling if available. Completely empty container. Dispose of container at an approved waste disposal facility or by incineration if allowed by state and local authorities. Do not use container in connection with food, feed, or drinking water.

Spills: If the container is leaking or material is spilled, absorb liquid with an absorbent such as kitty litter and carefully sweep up and wash exposed area with detergent and water. In spill or leak incidents, keep unauthorized people away.

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

FOR PET USE, USE ONLY ON DOGS. DO NOT APPLY TO CATS.

GENERAL PRECAUTIONS AND USE RESTRICTIONS	
<u>For use as a surface spray:</u>	<ul style="list-style-type: none"> Do not allow adults, children or pets to enter until sprays have dried.
<u>For use as a surface or space spray:</u>	<ul style="list-style-type: none"> Do not apply this product that will contact adults, children, or pets, either directly or through drift. Remove pets, birds, and cover fish aquariums before use. Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application. Not for broadcast use on indoor residential surfaces. Do not water the treated area to the point of run-off. Do not make applications during rain.

**THREE STEPS TO MIX AND APPLY:
SHAKE WELL BEFORE USING**

- For lawns and vegetables, measure the area to be sprayed. Calculate square feet by multiplying length by width. For all other applications, apply as a thorough cover spray.
- Use a clean sprayer. Carefully measure and mix the amount of concentrate and water as directed.
- Spray as directed. Thorough coverage is important. Flush sprayer with clean water after each use. Make applications when insects first appear. Repeat applications as directed.

Volume conversions:
1 fl.oz. = 6 tsp. or 2 Tbsp.
8 fl.oz. = 1/2 pt. or 1 cup

DIRECTIONS FOR APPLYING

HOME LAWNS

Turf Variety	Pests	How to Use
bentgrass, bermudagrass, bluegrass, dichondra, fescue, Irish moss, merion, St. Augustine grass	ants, armyworms, brown dog ticks, chinch bugs, crickets, cutworms, fleas, grasshoppers Japanese beetle grubs, mole crickets, sod webworms, ticks (including those that carry Lyme disease, leafhoppers	Thoroughly wet down grass a few hours before applying. Home lawns should be no taller than 3 inches at time of application. Slightly more water may be used as long as the amount of product per area is as listed below. For ants, crickets and grasshoppers, use 1/2 fl.oz. in 3 gals. of water to cover 1,000 sq.ft. For other listed insects, use 1 1/2 fl.oz. in 10 gal. of water to cover 1,000 sq.ft.

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HOUSE PLANTS INDOORS: TO PROTECT PLANTS IN RESIDENTIAL GREENHOUSES AND FOR INDOOR LANDSCAPING:

House Plants	Pests	How to Use
ageratum, ardisia, aster, baby's breath, begonia, birdsnest fern, bleeding heart, carnation, chrysanthemum, coleus, crown of thorns, cockscomb, cyclamen, dracaena, dumbcane, english ivy, fuchsia, gladiolus, grape ivy, juniper, lily, marigold, orchid, palm, pansy, peperomia, petunia, philodendron, piggy-back plant, poinsettia, portulaca, pothos, prayer plant, purple passion, rabbits foot fern, rose, schefflera, snapdragon, snake plant, statice, velvet plant, verbena, zinnia	aphids, armyworms, corn earworms, exposed thrips, fall cankerworms, inchworms, Japanese beetles, leafminers, leafrollers, mealybugs, scales, soldier mites, spring cankerworms, whiteflies	Mix ¼ fl.oz. in 1 gal. of water. Contact and residual: Use sufficient spray to obtain full coverage of all-foilage. If application is to be made indoors, remove infested plants from living areas prior to application. Use in an area not likely to be occupied by people or pets (particularly fish). After spraying, plants can be returned to original location. Do not use more product than recommended, as this may cause some plant injury. Use with care on ferns, palms and fuchsia. As with all plants listed, especially carnations, chrysanthemums, and roses, there exists a wide variety of species and cultivars, and therefore, a wide variety of susceptibility to injury. To ascertain possible phytotoxicity, treat a few plants as described above, wait 24 hours, and check for possible injury.
velvet plants	fungus gnats	

Fire Ant Control

Individual Mound and Plant Container Treatment:

Mix ½ fl.oz. in 3 gals. of water and apply as a drench using a sprinkler can. Gently apply 1 gallon of the mixture over the surface of each mound. Thoroughly wet mound and surrounding area of 3x4 ft. (12 sq.ft.). For best results apply in cool weather 65°-80°F early or late in the day. Treat new mounds as they appear. Pressurized sprays may disturb ants and cause migration, which will reduce product effectiveness. **Use the same method as above for the control of Fire Ants that may nest in permanently placed containerized ornamentals plants.**

TREES & SHRUBS

Tree and Shrub Variety	Pests	How to Use
Arizona, cypress, azalea, birch, cherry, non-bearing citrus, conifers, elm, English ivy, euonymus, weeping fig, fir, honeysuckle, lilac, mock-orange, oak, palm, philodendron, pine, poinsettia, tulip poplar, rhododendron, taxus	aphids, bagworms, cicadas, exposed thrips, fall cankerworms, inchworms, leafminers, leafrollers, mealybugs, spider mites, whiteflies, gypsy moth, tent caterpillar, japanese beetles	Use ¼ fl.oz. in 1 gal. of water. Apply as a thorough spray, wetting leaves and branches to the dripping point. Try to penetrate dense foliage. Spray in the late afternoon or evening, when the temperature ranges from 50°-75°F and when there is little or no wind. Spray at the first sign of insects. Application can be made up to the day of collection.
cherry, honeysuckle	fall webworms	
pine	pine beetles, pine moths, pine needle miners, needle scales	
other conifers	budworms	
Douglas and grand firs	tussock moth	
non-bearing citrus	citrus black flies	
oak	oakworms	
elm	elm leaf beetles, elm spanworms, fall webworms	

On Tent caterpillars, application should be made when caterpillars are young and tents are first noticed. For best results, apply in the late afternoon or evening, when caterpillars have returned to their tents. Wet tents with spray on all sides. A few caterpillars may be seen escaping from the tent; however, they should die within several hours.

ROSES & FLOWERS (ORNAMENTALS)

Roses & Flowers (Ornamentals)	Pests	How to Use
ageratum, aster, ardisia, azalea, baby's breath, begonia, birds-nest fern, bleeding heart, carnation, chrysanthemum, coleus, common ninebark and snowberry, crown of thorns, cockscomb, cyclamen, dracaena, dumbcane, english ivy, exacum, fuchsia, gladiolus, grape ivy, gold bells, hypoestes, ivy, juniper, lilac, marigold, mock-orange, nannyberry, orchid, palm, pansy, pea shrub, peperomia, petunia, philodendron, piggy-back plant, poinsettia, portulaca, pothos, prayer plant, purple passion, rabbits foot fern, rhododendron, rose, schefflera, snapdragon, snake plant, statice velvet plant, verbena, zinnia	aphids, armyworms, bagworms, cabbage worms, cicadas, cornworms, cutworms, exposed thrips, fall cankerworms, fall webworms, fungus gnat, inchworms, japanese beetles, leafminers, leafrollers, mealybugs, scale crawlers, spring cankerworms, spider mites, whiteflies, rose chafer, psyllids, scale insects	Use ¼ fl.oz. in 1 gal. of water. Apply as a thorough spray, wetting the plants to the dripping point. Try to hit underside of leaves and penetrate dense foliage. Spray in the later afternoon or evening when the temperature ranges from 50° to 75°F and when there is little or no wind. Spray at the first sign of insects. Application can be made up to the day of collection.

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FRUIT & NUT TREES

GENERAL DIRECTIONS

Use ½ fl.oz. in 1 gal. of water. Apply when insects appear. Wet the plants to the dripping point. Cover undersides of leaves and penetrate dense foliage to the extent possible.

Tree Variety	Pests	How to Use
almonds	navel orangeworms, peach twig borers	Do not make more than 2 applications during hull split and 5 applications per season. Can be applied up to 7 days prior to harvest.
apples	green fruitworms, aphids, leafrollers (oblique-banded, redbanded), plum curculio, rosy apple aphids, spotted tentiform leafminers, tarnished plant bugs, white apple leafhoppers, Japanese beetles	Do not make more than 3 applications per season. Do not apply after petal fall. Do not retreat before 10 days.
peaches	borers (lesser peachtree, peach twig), green fruitworms, plum curculio, Oriental fruit moths, tarnished plant bugs	Do not apply within 7 days of green harvest or 14 days of harvest. Do not make more than 8 applications per season. Do not retreat before 10 days.
pears (dormant through delayed dormant)	pear psylla	Apply during the dormant through delayed dormant growth period only. Do not make more than 2 applications per season. Add, if desired, 8 oz. of spray oil to each gallon of {product}.
pears (summer)	codling moths, green fruitworms, pear psylla, aphids	Do not make more than 3 applications per season. Can be applied up to 14 days prior to harvest. Do not retreat before 10 days.

VEGETABLES

Prepare a spray solution at the dilution rates listed for each crop in the chart below. Apply the spray solution at the rate of 1 gallon to cover 440 square feet surface area.

Vegetables	Pests	How to Use
asparagus (pre-harvest)	asparagus beetles, cutworms	Use ¼ fl.oz. in 2 gals. of water. Apply to ensure uniform coverage. Do not retreat before 7 days. Do not apply more than 4 applications per crop. Can be applied up to 1 day prior to harvest.
asparagus (post-harvest)	larval stages of asparagus beetle; tarnished plant bugs, lygus bugs, adult Japanese beetle	Use ¼ fl.oz. in 1 gal. of water. Treat ferns or bush growth after spear harvest when insects are present.
celery - see leafy vegetables		
cole crops, broccoli, brussels sprouts, cabbage, cauliflower	beet armyworms, cabbage aphids and loopers, diamondback moths, imported cabbageworms	Use ¼ fl.oz. in 1 gal. of water. Apply every 5 days or as needed. Do not retreat before 4 days for broccoli and 5 days for brussel sprouts, cabbage and cauliflower. Can be applied up to 1 day prior to harvest. Do not make more than 8 applications on cauliflower, Brussels sprouts and broccoli and 10 applications on cabbage.
corn - see sweet corn		

Vegetables	Pests	How to Use
cucumber, melons, pumpkins, squash	flea beetle, leafhopper	Use ½ fl.oz. in 1 gal. water. Do not retreat before 7 days. Apply as needed, but not more than 8 applications per season. Can be applied up to 3 days prior to harvest.
<u>cucurbits</u> : balsam pear(bitter melon), Chinese waxgourd (Chinese preserving melon), citron melon, cucumber, gherkin, edible gourds; melons including hybrids such as cantaloupe, casaba, crenshaw, honeydew, honey balls, mango melon, muskmelon, Persian melon, pumpkin, summer & winter squash, watermelon	aphids, cabbage looper, cucumber beetle (adults), cutworms, leafhoppers, leafminers, melonworms, pickleworm, plant bugs, squash bugs.	Use ½ fl.oz. in 1 gal. water. Do not retreat before 7 days. Apply to ensure uniform coverage. Can be applied up to the day of harvest.
eggplant	Colorado potato beetles, vegetable leafminers	Use ¾ fl.oz. in 1 gal. of water. Do not retreat before 7 days. Apply to ensure uniform coverage. Do not exceed 16 applications. Can be applied up to 3 days prior to harvest.
horseradish (foliar application)	imported crucifer weevils	Use ¾ fl.oz. in 1 gal. water. Do not retreat before 10 days. Do not exceed 3 foliar applications. Can be applied up to 30 days prior to harvest.
lettuce head only (Do not use on leaf lettuce)	corn earworms, beet armyworms, loopers (alfalfa, cabbage), tobacco budworms	Use ½ fl.oz. in 1 gal. water. Do not retreat before 7 days. Apply every 5-10 days as needed. Do not make more than 10 applications per season. Can be applied up to 1 day prior to harvest.
<u>leafy vegetables</u> : amaranth, arrugula, celery, celtuce, chervil, corn salad, chrysanthemum (edible-leaved and garland), cress (garden and upland), dandelion, dock, endive, fennel, lettuce(head and leaf), parsley, purslane (garden and winter), rhubarb, spinach, Swiss chard	alfalfa looper, aphids, beet armyworm, cabbage looper, corn earworm, cutworms, european corn borer, fall armyworm, green cloverworm, southern armyworm, tobacco budworm, vegetable leafminer.	Use 1/3 fl.oz. in 1 gal. water. Do not retreat before 3 days. Apply every 5 to 10 days as needed. Do not make more than 10 applications per season. Can be applied up to 1 day prior to harvest.
melons-see cucurbits		
potatoes	beet armyworm, Colorado potato beetle, potato leafhopper, potato tuberworm, cabbage looper, cutworms, European corn borer, potato psyllid, tarnished plant bug	Use ¾ fl.oz. in 2 gals. of water. Do not retreat before 10 days. Apply as needed, but not more than 12 applications. Can be applied up to 14 days prior to harvest.

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Vegetables	Pests	How to Use
peppers, bell	vegetable leafminers, cabbage looper, flea beetle, corn earworm, pepper weevil, European corn borer, green cloverworms, leafhoppers	Use ½ fl.oz. in 1 gal. of water. Do not retreat before 5 days. Apply as needed, but not more than 8 applications per season. Can be applied up to 3 days prior to harvest.
sweet corn	armyworms (fall, southern), corn earworms, european corn borers	Use ¾ fl.oz. in 2 gals. of water. Do not retreat before 3 days. Apply every 5 days, but not more than 6 applications per season. Can be applied up to 1 day prior to harvest.
Tomatoes (Do not apply on cherry tomatoes and varieties yielding less than tomatoes one inch in diameter.)	beet and southern armyworm, tomato pinworm, tomato fruitworm, horn worms, granulate cutworms, Colorado potato beetle, cabbage looper	Use ½ fl.oz. in 1 gal. water. Apply to ensure uniform coverage, but not more than 6 applications per season. Can be applied up to day of harvest.

NUISANCE PESTS IN OUTDOOR AREAS

GENERAL DIRECTIONS

Use 1 2/3 fl.ozs. in 1 quart of water, treating 400 linear feet with a 6-inch spray band.

OUTSIDE SURFACES OF BUILDINGS

Use Permethrin 10 E.W. on ants, clover mites, crickets, earwigs, millipedes, sowbugs (pillbugs) and spiders to help prevent infestation of buildings, treat the building foundation to a height of 2 to 3 feet, where pests are active and may find entrance. Also, apply as a residual spray to outside surfaces of building, including porches, screens, window frames, eaves, patios, garages, refuse dumps and other areas where these pests congregate or have been seen.

OTHER OUTDOOR AREAS

Use Permethrin 10 E.W. on ants, crickets, earwigs, fleas, ticks (including ticks that may carry Lyme disease) for treatment of localized infestations of these insects in areas where there are weeds or bushy non-crop areas, spray infested areas thoroughly. For ants, thoroughly wet hills and trails. Repeat application only as needed to maintain insect control.

To reduce annoyance from: cluster flies, flying moths, gnats, house flies, mosquitoes. Spray outside surfaces of screens, doors, window frames or wherever these insects may enter the room. Also treat surfaces around light fixtures on porches, in garages, around shrubbery, and other places where these insects alight or congregate.

DIRECTIONS FOR USE IN OUTDOOR RESIDENTIAL MISTING SYSTEMS (RESIDENTIAL YARDS, PLAYSCAPES)

Use to control, or reduce the populations of spiders and nuisance pest insects including but not limited to mosquitoes and flies.

Restrictions for use in outdoor residential misting systems:

When using this product, installers and service technicians must comply with license, certification, or registration requirements of the states, tribes, or local authorities where they are installed. Do not apply this pesticide when people, pets, and/or food are present. Do not use in an evaporative cooling system. Direct nozzles to spray towards the target area and away from swimming pools, water bodies, or eating and cooking areas. Do not set nozzles to direct mist near outside air condition systems or other home air intakes.

If used in a system with a reservoir tank [unit / mister] [optional marketing language] for the end use dilution, the system [unit / mister] [optional marketing language] reservoir tank must be locked. Securely attach the end use and use pesticide label and a dilution statement to the system [unit / mister] [optional marketing language] tank in a weather protected area or plastic sleeve. The dilution statement must be phrased as follows: This container holds 3 parts [Fl.oz.] to 640 parts [Fl.oz.] water.

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Mixing directions for systems [unit / mister] [optional marketing language] that utilize a reservoir tank for the end dilution:

Partially fill reservoir tank half full with water, add PERMETHRIN 10 E.W., then fill remainder of reservoir tank. Mix 6 Fl.oz. PERMETHRIN 10 E.W. per 10 gallons of water. It is recommended that the system reservoir tank be shaded from direct sunlight and direct heat sources.

If used in a direct injection system, the pesticide container must be locked. Securely attach the end use label to the pesticide container in a weather protected area or plastic sleeve.

This product may only be used in systems [unit / mister] [optional marketing language] that have been calibrated to apply no more than the maximum application rate of 0.0054 pounds PERMETHRIN 10 E.W., (0.09 Fl.oz. PERMETHRIN 10 E.W.,) per 1000 cubic feet per day.

System nozzles and pressure should be able to deliver a fine particle droplet size (ULV, mist or aerosol). If the system works on an automatic timer, set the timing for application when people, pets, and food are unlikely to be present.

If the system works when a person operates a remote activation device, the application of this pesticide when people, pets, and food are present is prohibited.

Contact the system manufacture for guidance or assistance to ensure compliance with the following requirement: This product may only be used in systems that have been calibrated to apply no more than the maximum application rate of 0.25 grams a.i. per 1000 cubic feet per day.

WOOD-INFESTING INSECTS (including termites*): for beetles (furniture, deathwatch, false powderpost, longhorned, powderpost), carpenter ants (and other wood-infesting ants), carpenter bees and termites (including dry-wood termites):

Treat outside surfaces of buildings, porches, wooden decks and patios, wooden fences, window frames, doorways, foundations, eaves, patios, garages, garbage areas and other areas where you may find these pests.

Mix 2½ fl.oz. with 1 gallon of water to treat 100 sq.ft. Spray infested surfaces until thoroughly wet, avoiding dripping and runoff. Apply evenly on wood surfaces. To treat small areas, apply by brushing or spraying the diluted spray. For large areas, use a coarse, low pressure spray. Do not spray into electrical outlets or utilities.

Spray infested areas and areas likely to be infested, such as wood surfaces, voids and channels in damaged wood, spaces between wooden parts of a structure, and between wood and foundations where infestation is likely to occur, also around fenceposts, wood piles (do not use on firewood) and tree stumps.

Suitable protective clothing should be worn in confined or overhead areas to prevent exposure to eyes and skin. The use of eye protection, protective head covering, chemical resistant gloves and footwear, a long-sleeved shirt and long pants or coveralls are recommended. Do not permit contact with treated surfaces until spray has dried. Treated confined areas, such as detached garages, under porches and decks, should be ventilated during and immediately following application before the areas are re-occupied.

For carpenter ants, spray around doors and windows and other places where ants may enter or crawl and hide. Also treat cracks and crevices into wall voids or other areas where these ants may be present. **For carpenter bees**, spray or inject into holes and tunnels already made by the bees with a tank sprayer, and spray areas where they are beginning to build tunnels into the wood. **For Termites* [including dry-wood termites]**: treat as for other wood-infesting insects. This product will kill workers and winged reproductive forms of termites in the treated areas.

*The purpose of such applications of Permethrin 10 EW for termites is to kill workers or winged reproductive forms which may be present in treated channels at the time of treatment. Such applications are not a substitute for mechanical alteration, soil treatment, or foundation treatment but are merely a supplement. This product is not recommended as sole protection against termites. For active indoor termite infestations, get a professional inspection.

Soil Termite Treatment Directions

Subterranean Termites: DO NOT USE INSIDE DWELLINGS. For use around existing structures, not for pre-construction use. For post-construction treatment around residential buildings. **Mix 6.7 oz of this product per 1 gallon of water** (makes 0.5% water emulsion). Apply as specified below. One treatment should last up to 5 years if treated soil is left undisturbed. Kills and controls subterranean termites. Chemicals for soil treatment are used to establish a barrier against termites. The chemical emulsion must be adequately dispersed in the soil to provide a barrier between the wood in the structure and the termite colonies in the soil. Barriers may be established in the soil on the outside perimeter of the house by trenching using a rate of 4 gallons of emulsion per 10 linear feet per foot of depth to the top of the footer. A complete treatment may require treatment with another EPA registered product to the inside perimeter of the foundation and to other crucial areas. For these situations, contact a licensed pest control operator for treatment. Do not use under slabs, in crawl spaces, or indoors. If termites are found within the house or structure, contact a licensed pest control operator for treatment.

Suitable protective clothing should be worn in confined or overhead areas to prevent exposure to eyes and skin. The use of eye protection, protective head covering, chemical resistant gloves and footwear, a long-sleeved shirt and long pants or coveralls are recommended. Do not permit contact with treated surfaces until spray has dried. Treated confined areas, such as detached garages, under porches and decks, should be ventilated during and immediately following application before the areas are re-occupied.

Remove all wood debris and wood forms. Around piers, pipes, chimney bases and along foundations of poured concrete, dig a trench 6 inches wide and 4 inches deep. For brick and block foundations, dig the trench about 12 inches deep. If the footing is more than 12 inches deep, make holes with a crowbar, pipe or rod about 1 foot apart that extend from the trench bottom to the top of the footing. Make holes closer in hard-packed clay soils. **NEVER DIG BELOW THE TOP OF THE FOOTING.** Apply the prepared emulsion (or solution) in the trench and to the backfill at the rate of 4 gallons per 10 linear feet per foot of depth. Cover the treated soil with a thin layer of untreated soil.

For raised porches, terraces and entrance slabs outdoors, drill holes at one foot intervals, 6 inches from the foundation, and pour one-half gallon of emulsion (or solution) into each hole. Refill holes.

Be sure to treat the interiors of accessible hollow block foundations at the same rate as above. Do not use in structural voids insulated with rigid foam. Be careful to have adequate ventilation when treating areas under structure. For severe infestations or treatment under slabs with heat ducts or radiating heat pipes, in basements and buildings with insufficient crawl space, etc., contact a licensed pest control operator or termite control service.

NOTE: Avoid contamination of public and private water supplies by following these precautions. Do not allow a hose or any type of faucet extension to reach into the termite chemical solution while filling or mixing this material with water. Use of anti-back flow equipment will help ensure that the user of this chemical will not contaminate domestic water supplies. Refer to FHA (Federal Housing Administration), state and local specifications for safe distances of treatment areas from wells. Do not treat structures that have cisterns, wells, French drains, or sump systems. Soil in the vicinity of wells, cisterns or ponds should not be treated. For those situations, contact the local Cooperative Extension Service or consult a commercial pest control service. Do not treat soil that is water saturated or frozen or in any conditions where runoff or movement from the treatment area (site) is likely to occur.

When to reapply: Reapplication for subterranean termites should only be made when there has been a disruption of the chemical barrier in the soil due to a construction, excavation, landscaping, etc. Reapplication should be made as a spot treatment to those areas. Annual reapplication of the entire premises must be avoided.

ANIMAL PREMISE USE

Restrictions for use in commercial animal premise automatic misting systems:
Not for use in outdoor residential misting systems (indoor or outdoor).
Do not apply this product in barns or stables where animals intended for slaughter or human consumption will be maintained.
Do not apply when food, feed, or water is present.
Do not apply directly to animals.
When using this product, installers and service technicians must comply with the license, certification, or registration requirements of the state(s), tribe(s), or local authority(ies) where they are installed.

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When applying via a remote activation device, do not apply when people and pets are present. If possible, when applying via automatic timer, set the timing for application when people and pets are unlikely to be present.

Direct nozzles to spray towards the target area and away from areas where people are typically present. Do not use in an evaporative cooling system.

Do not use in misters located within 3 feet of air vents, air conditioner units, or windows.

If used in a system with a reservoir tank for the end use dilution, the system reservoir tank must be locked. Securely attach the end pesticide label and a dilution statement to the system reservoir tank in a weather protected area or plastic sleeve. The dilution statement must be phrased as follows: This container holds 3 parts [Fl.oz.] to 640 parts [Fl.oz.] water.

If used in a direct injection system, the pesticide container must be locked. Securely attach the end use label to the pesticide container in a weather protected area or plastic sleeve.

This product must only be used in systems that have been calibrated to apply no more than the maximum application rate of {insert product application rate}.

Dilution Rate		Instructions
0.5%	Mix 6.7 Fl.oz. per gallon of water in tank [reservoir].	For initial clean up of severe insect infestation, dilute at a rate of 1 part concentrate in 19 parts water (6.7 ounces per gallon of water).
0.1%	Mix 1.33 Fl.oz. per gallon of water in tank [reservoir].	For normal infestations, dilute 1 part concentrate in 100 parts water (1.33 ounces per gallon of water).

PESTS ON DOG PREMISES (Kennels, Dog Houses, Runs and Yards)

Fleas, Flies, Ticks, Lice and Mange Mites (adult and larvae)

Dilute 8 oz. in 6.25 gal. water.
Dilute 1 pt. in 12.5 gal. water.
Dilute 1 qt. in 25 gal. water.

Thoroughly spray infested areas, pet beds, and resting quarters. Fresh Bedding should be placed in animal quarters following treatment. Most efficient pest control is accomplished when heavy pressure and good contact is achieved. Timing and frequency of applications should be based on pest populations reaching nuisance levels, but accompanying manure removal and sanitation practices should precede sprays. Do not spray food, feed, or water. Repeat as needed but not more than once every two weeks.

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ANIMAL USE

PESTS ON DOGS

(DO NOT TREAT PUPPIES LESS THAN TWELVE (12) WEEKS OF AGE)

fleas, lice & mange, ticks,
(including deer ticks that transmit
Lyme disease)

Dilute 8 oz. in 12.5 gal. water.
Dilute 1 pt. in 25 gal. water.
Dilute 1 qt. in 50 gal. water.

Thoroughly wet the animal by dipping, sponging or spraying. Allow animal to dry in a warm place without rinsing or toweling. Do not reapply product for two to Three weeks. Consult a veterinarian before using this product on debilitated, aged, pregnant or nursing animals or on medication. **Sensitivities may occur after using ANY pesticide product for pets. If signs of sensitivity occur, bathe your pet with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately.**

NOTE: Buyer assumes all risks of use, storage or handling of this product not in strict accordance with label DIRECTIONS and PRECAUTIONS. [Optional Statement]

WARRANTY STATEMENT

Control Solutions, Inc. warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Control Solutions, Inc. To the extent consistent with applicable law, Control Solutions, Inc. shall in no event be liable for consequential, special, or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. In addition to the foregoing, no purchaser of this product (other than an end user) shall be entitled to any reimbursement for any loss suffered as a result of any suspension or cancellation of the registration for this product by the U.S. Environmental Protection Agency. Except, as expressly provided herein, Control Solutions, Inc. makes no warranties, guarantees, or representations of any kind, either expressed or implied, or by usage of trade, statutory or otherwise, with regard to the product sold, including, but not limited to merchantability, fitness for a particular purpose, use or eligibility of the product for any particular trade usage. To the extent consistent with applicable law, the exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damage resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall be damages not exceeding the purchase price paid for this product or, at Control Solutions, Inc. election, the replacement of this product.

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EPA Establishment No. 53883-TX-02